

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/001,039ADATE: 08/06/98
TIME: 12:40:51

INPUT SET: S27916.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Chiron Corporation

(ii) TITLE OF INVENTION: Methods for Administration of
Recombinant Gene Delivery Vehicles for Treatment of Hemophilia
and Other Disorders

(iii) NUMBER OF SEQUENCES: 83

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Chiron Corporation

(B) STREET: 4560 Horton Street

(C) CITY: Emeryville

(D) STATE: California

(E) COUNTRY: U.S.A.

(F) ZIP: 94608

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Kruse, Norman J.

(B) REGISTRATION NUMBER: 35,235

(C) REFERENCE/DOCKET NUMBER: 1155.005

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (510) 923-3520

(B) TELEFAX: (510) 655-3542

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24 base pairs

(B) TYPE: nucleic acid

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47 (C) STRANDEDNESS: single
48 (D) TOPOLOGY: linear
49 (ii) MOLECULE TYPE: DNA (genomic)
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
51 GAGAGATGGG GGAGGCTAAC TGAG 24
52
53 (2) INFORMATION FOR SEQ ID NO:2:
54 (i) SEQUENCE CHARACTERISTICS:
55 (A) LENGTH: 28 base pairs
56 (B) TYPE: nucleic acid
57 (C) STRANDEDNESS: single
58 (D) TOPOLOGY: linear
59 (ii) MOLECULE TYPE: DNA (genomic)
60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
61 GATCCTCAGT TAGCCTCCCC CATCTCTC 28
62
63 (2) INFORMATION FOR SEQ ID NO:3:
64 (i) SEQUENCE CHARACTERISTICS:
65 (A) LENGTH: 35 base pairs
66 (B) TYPE: nucleic acid
67 (C) STRANDEDNESS: single
68 (D) TOPOLOGY: linear
69 (ii) MOLECULE TYPE: DNA (genomic)
70 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
71 TATATCTCCA GATGAGGTAC ATGATTTTAG GCTTG 35
72
73 (2) INFORMATION FOR SEQ ID NO:4:
74 (i) SEQUENCE CHARACTERISTICS:
75 (A) LENGTH: 40 base pairs
76 (B) TYPE: nucleic acid
77 (C) STRANDEDNESS: single
78 (D) TOPOLOGY: linear
79 (ii) MOLECULE TYPE: DNA (genomic)
80 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
81 TATATATCGA TTCAAGGCAT TTTCTTTTCA TCAATAAAAC 40
82
83 (2) INFORMATION FOR SEQ ID NO:5:
84 (i) SEQUENCE CHARACTERISTICS:
85 (A) LENGTH: 37 base pairs
86 (B) TYPE: nucleic acid
87 (C) STRANDEDNESS: single
88 (D) TOPOLOGY: linear
89 (ii) MOLECULE TYPE: DNA (genomic)
90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
91 TCGAGGATCC GCCCGGGCGG CCGCATCGAT GTCGACG 37
92
93 (2) INFORMATION FOR SEQ ID NO:6:
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 35 base pairs
96 (B) TYPE: nucleic acid
97 (C) STRANDEDNESS: single
98 (D) TOPOLOGY: linear
99 (ii) MOLECULE TYPE: DNA (genomic)

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100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
101 CGCGTCGACA TCGATGCGGC CGCCCGGGCG GATCC 35
102
103
104 (2) INFORMATION FOR SEQ ID NO:7:
105 (i) SEQUENCE CHARACTERISTICS:
106 (A) LENGTH: 77 base pairs
107 (B) TYPE: nucleic acid
108 (C) STRANDEDNESS: single
109 (D) TOPOLOGY: linear
110 (ii) MOLECULE TYPE: DNA (genomic)
111 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
112 AGTGAATTCG AGCTCGGTAC CCGGGGATCC TCTAGAGTCG ACCTGCAGGC ATGCAAGCTT 60
113 GCGGTAATCA TGGTCAT 77
114
115 (2) INFORMATION FOR SEQ ID NO:8:
116 (i) SEQUENCE CHARACTERISTICS:
117 (A) LENGTH: 8 amino acids
118 (B) TYPE: amino acid
119 (C) STRANDEDNESS: single
120 (D) TOPOLOGY: linear
121 (ii) MOLECULE TYPE: protein
122 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
123 Ala Arg Glu Met Gly Glu Ala Asn
124 1 5
125
126 (2) INFORMATION FOR SEQ ID NO:9:
127 (i) SEQUENCE CHARACTERISTICS:
128 (A) LENGTH: 27 base pairs
129 (B) TYPE: nucleic acid
130 (C) STRANDEDNESS: single
131 (D) TOPOLOGY: linear
132 (ii) MOLECULE TYPE: DNA (genomic)
133 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
134 CCCGAGAGAT GGGGAGGCT AACTGAG 27
135
136 (2) INFORMATION FOR SEQ ID NO:10:
137 (i) SEQUENCE CHARACTERISTICS:
138 (A) LENGTH: 31 base pairs
139 (B) TYPE: nucleic acid
140 (C) STRANDEDNESS: single
141 (D) TOPOLOGY: linear
142 (ii) MOLECULE TYPE: DNA (genomic)
143 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
144 GGGCTCTCTA CCCCTCCGA TTGACACCTA G 31
145
146 (2) INFORMATION FOR SEQ ID NO:11:
147 (i) SEQUENCE CHARACTERISTICS:
148 (A) LENGTH: 5 amino acids
149 (B) TYPE: amino acid
150 (C) STRANDEDNESS: single
151 (D) TOPOLOGY: linear
152 (ii) MOLECULE TYPE: protein

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153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
154 Thr Ile Met Thr Met
155 1 5
156
157
158 (2) INFORMATION FOR SEQ ID NO:12:
159 (i) SEQUENCE CHARACTERISTICS:
160 (A) LENGTH: 24 base pairs
161 (B) TYPE: nucleic acid
162 (C) STRANDEDNESS: single
163 (D) TOPOLOGY: linear
164 (ii) MOLECULE TYPE: DNA (genomic)
165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
166 CCCTGTGCCT TATTTGAACT AACC 24
167
168 (2) INFORMATION FOR SEQ ID NO:13:
169 (i) SEQUENCE CHARACTERISTICS:
170 (A) LENGTH: 24 base pairs
171 (B) TYPE: nucleic acid
172 (C) STRANDEDNESS: single
173 (D) TOPOLOGY: linear
174 (ii) MOLECULE TYPE: DNA (genomic)
175 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
176 CCCACCACAA CCACATATCC CTCC 24
177
178 (2) INFORMATION FOR SEQ ID NO:14:
179 (i) SEQUENCE CHARACTERISTICS:
180 (A) LENGTH: 19 base pairs
181 (B) TYPE: nucleic acid
182 (C) STRANDEDNESS: single
183 (D) TOPOLOGY: linear
184 (ii) MOLECULE TYPE: DNA (genomic)
185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
186 CCAGTCCTCC GATTGACTG 19
187
188 (2) INFORMATION FOR SEQ ID NO:15:
189 (i) SEQUENCE CHARACTERISTICS:
190 (A) LENGTH: 8332 base pairs
191 (B) TYPE: nucleic acid
192 (C) STRANDEDNESS: single
193 (D) TOPOLOGY: linear
194 (ii) MOLECULE TYPE: DNA (genomic)
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
196
197 GCGCCAGTCC TCCGATTGAC TGAGTCGCCC GGGTACCCGT GTATCCAATA AACCCCTCTTG 60
198
199 CAGTTGCATC CGACTTGTGG TCTCGCTGTT CCTTGGGAGG GTCTCCTCTG AGTGATTGAC 120
200
201 TACCCGTCAG CGGGGGTCTT TCATTTGGGG GCTCGTCCGG GATCGGGAGA CCCCTGCCCA 180
202
203 GGGACCACCG ACCCACCACC GGGAGGTAAG CTGGCCAGCA ACTTATCTGT GTCTGTCCGA 240
204
205 TTGTCTAGTG TCTATGACTG ATTTTATGCG CCTGCGTCGG TACTAGTTAG CTAAGTAGCT 300

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206
207 CTGTATCTGG CGGACCCGTG GTGGAAGTGA CGAGTTCGGA ACACCCGGCC GCAACCCTGG 360
208
209 GAGACGTCCC AGGGACTTCG GGGGCCGTTT TTGTGGCCCG ACCTGAGTCC AAAAATCCCG 420
210
211 ATCGTTTGG ACTCTTTGGT GCACCCCTT TAGAGGAGGG ATATGTGGTT CTGGTAGGAG 480
212
213 ACGAGAACCT AAAACAGTTC CCGCCTCCGT CTGAATTTTT GCTTTCGGTT TGGGACCGAA 540
214
215 GCCGCGCCGC GCGTCTTGTC TGCTGCAGCA TCGTTCTGTG TTGTCTCTGT CTGACTGTGT 600
216
217 TTCTGTATTT GTCTGAGAAT ATGGGCCAGA CTGTTACCAC TCCCTTAAGT TTGACCTTAG 660
218
219 GTCACCTGAA AGATGTCGAG CGGATCGCTC ACAACCAGTC GGTAGATGTC AAGAAGAGAC 720
220
221 GTTGGGTAC CTTCTGCTCT GCAGAAATGGC CAACCTTTAA CGTCGGATGG CCGCGAGACG 780
222
223 GCACCTTTAA CCGAGACCTC ATCACCCAGG TTAAGATCAA GGTCTTTTCA CCTGGCCCGC 840
224
225 ATGGACACCC AGACCAGGTC CCCTACATCG TGACCTGGGA AGCCTTGGCT TTTGACCCCC 900
226
227 CTCCTGGGT CAAGCCCTTT GTACACCCTA AGCCTCCGCC TCCTCTTCCT CCATCCGCCC 960
228
229 CGTCTCTCCC CTTGAACCT CCTCGTTCGA CCCC GCCTCG ATCCTCCCTT TATCCAGCCC 1020
230
231 TCACTCCTTC TCTAGGCGCC AAACCTAAAC CTCAAGTTCT TTCTGACAGT GGGGGGCCGC 1080
232
233 TCATCGACCT ACTTACAGAA GACCCCCCGC CTTATAGGGA CCCAAGACCA CCCCCTTCCG 1140
234
235 ACAGGGACGG AAATGGTGGG GAAGCGACCC CTGCGGGAGA GGCACCGGAC CCCTCCCCAA 1200
236
237 TGGCATCTCG CCTACGTGGG AGACGGGAGC CCCCTGTGGC CGACTCCACT ACCTCGCAGG 1260
238
239 CATTCCTCCCT CCGCGCAGGA GGAAACGGAC AGCTTCAATA CTGGCCGTTT TCCTCTTCTG 1320
240
241 ACCTTTACAA CTGGAAAAAT AATAACCTT CTTTTTCTGA AGATCCAGGT AAACTGACAG 1380
242
243 CTCTGATCGA GTCTGTTCTC ATCACCATC AGCCACCTG GGACGACTGT CAGCAGCTGT 1440
244
245 TGGGGACTCT GCTGACCGGA GAAGAAAAAC AACGGGTGCT CTTAGAGGCT AGAAAGGCGG 1500
246
247 TGCGGGGCGA TGATGGGCGC CCCACTCAAC TGCCCAATGA AGTCGATGCC GCTTTTCCCC 1560
248
249 TCGAGCGCCC AGACTGGGAT TACACCACCC AGGCAGGTAG GAACCACCTA GTCCACTATC 1620
250
251 GCCAGTTGCT CTTAGCGGGT CTCCAAAACG CGGGCAGAAG CCCACCAAT TTGGCCAAGG 1680
252
253 TAAAAGGAAT AACACAAGGG CCCAATGAGT CTCCCTCGGC CTTCTTAGAG AGACTTAAGG 1740
254
255 AAGCCTATCG CAGGTACACT CTTATGACC CTGAGGACCC AGGGCAAGAA ACTAATGTGT 1800
256
257 CTATGTCTTT CATTTGGCAG TCTGCCCCAG ACATTGGGAG AAAGTTAGAG AGGTTAGAAG 1860
258

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/001,039A

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